## INTERNATIONALSEARCHREPORT

International application No. PCT/JP 2004/010069

A. CLASSIFICATION OF SUBJECT MATTER			
Int.Cl' F28F9/02			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl7 F28F9/02			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004			
Blectronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.
x	JP 2003-75024 A (SHOWA DENK		1-31
•	K.K.) 2003.03.12 (Family: None	)	
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents:  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to			
considered to be of particular relevance understand the principle or theory underlying the invention  "B" earlier application or patent but published on or after the inter- "X" document of particular relevance; the claimed invention cannot			
national filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other  "Y" document of particular relevance: the claimed invention cannot			
special reason (as specified)  special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other  special reason (as specified)  be considered to involve an inventive step when the document is combined with one or more other such documents, such			
means  combination being obvious to a person skilled in the art  "P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed			
Date of the actual completion of the international search  Date of mailing of the international search report			
09.11.2004		30.11.200 <b>4</b>	
Name and	nailing address of the ISA/JP	Authorized officer	3M 8610
Japan Patent Office YOICHI NAGASAKI		327 0010	
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